SEQUENCE LISTING

<110> VALMORI, Danila
       AYYOUB, Maha
       PINILLA, Clemencia

<120> Isolated, SSX-2 and SSX-2 Related Peptides Useful as HLA Binders
       and CTL Epitopes, and Uses Thereof

<130> LUD 5739 PCT

<140> PCT/US2003/023306
<141> 2003-07-23

<150> 60/400,076
<151> 2002-07-31

<160> 116

<170> PatentIn version 3.2

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Ala Leu Ala Pro Lys Ile Phe Tyr Ala
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Met Leu Leu Ala Val Leu Tyr Cys Leu
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Glu Leu Ala Gly Ile Gly Ile Leu Thr Val
1               5                    10


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Ile Met Pro Lys Ala Gly Leu Leu Ile
1               5


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Phe Leu Trp Gly Pro Arg Ala Leu Val
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Val Arg Ile Gly His Leu Tyr Ile Leu
1               5
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<400>  31

Tyr Leu Gln Leu Val Phe Gly Ile Glu Val
1               5                   10


<210>  32
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Phe Leu Trp Gly Pro Arg Ala Leu Val
1               5


<210>  33
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Val Leu Pro Asp Val Phe Ile Arg Cys Xaa
1               5                   10


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Gly Leu Tyr Asp Gly Met Glu His Leu
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<210>  35
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Met Glu Val Asp Pro Ile Gly His Leu Tyr
1               5                   10


<210>  36
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Glu Val Asp Pro Ile Gly His Leu Tyr
1               5
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Ser Leu Leu Met Trp Ile Thr Gln Cys
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<210> 38
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Ile Met Pro Lys Ala Gly Leu Leu Ile
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Glu Val Asp Pro Ile Gly His Leu Tyr
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<210> 40
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Gly Val Tyr Asp Gly Arg Glu His Thr Val
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<210> 41
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Glu Ala Asp Pro Thr Gly His Ser Tyr
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<210> 42
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<400> 42

Ser Glu Ile Trp Arg Asp Ile Asp Phe
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Ser Ala Tyr Gly Glu Pro Arg Lys Leu
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Tyr Arg Pro Arg Pro Arg Arg Tyr
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<210>   46
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Leu Ala Met Pro Phe Ala Thr Pro Met
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<210>   47
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Ala Arg Gly Pro Glu Ser Arg Leu Leu
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Tyr Tyr Trp Pro Arg Pro Arg Arg Tyr
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<210>   49
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Ala Ala Arg Ala Val Phe Leu Ala Leu
1   5

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Thr Gln His Phe Val Gln Glu Asn Tyr Leu Glu Tyr
1   5   10

<210> 51
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Ser Leu Leu Met Trp Ile Thr Gln Cys Phe Leu
1   5   10

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Ala Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg
1   5   10

<210> 53
<211> 14
<212> PRT
<213> Homo sapiens
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Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu
1   5   10

<210> 54
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<212> PRT
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Ala Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg
1   5   10

<210> 55
<211> 12

<212> PRT
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Glu Tyr Val Ile Lys Val Ser Ala Arg Val Arg Phe
1   5   10

<210> 56
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Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu
1   5   10

<210> 57
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Pro Gly Val Leu Leu Lys Glu Phe Thr Val Ser Gly Asn Ile Leu Thr
1   5   10   15
Ile Arg Leu Thr
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<210> 58
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Ala Ala Asp His Arg Gln Leu Gln Leu Ser Ile Ser Ser Cys Leu Gln
1   5   10   15
Gln Leu

<210> 59
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      Tyr at position 8
<400> 59

Ala Ala Ala Pro Lys Gln Phe Leu Ala
1   5

<210> 60
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      Tyr at position 8
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Ala Ala Ser Pro Lys Ser Phe Thr Leu
1   5

<210> 61
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<223> Peptides with nine amino acids wherein two of the following
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      Tyr at position 8
<400> 61

Val Ser Ala Pro Lys Val Phe Gln Ala
1   5

<210> 62
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      Tyr at position 8
<400> 62

Ile Ala Ser Pro Lys Ala Thr Tyr Val
1   5

<210> 63
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      Tyr at position 8
<400> 63

Val Ser Ala Pro Lys Ile Phe Gln Ala
1   5

<210> 64
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      Tyr at position 8
<400> 64

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Asn Ser Leu Pro Lys Val Ala Tyr Ala
1           .       ,     5


<210>   65
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<400>   65

Ala Ser Leu Pro Lys Val Ser Tyr Val
1                   5


<210>   66
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<223>   Peptides with nine amino acids wherein two of the following
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        Tyr at position 8
<400>   66

Lys Ala Glu Pro Lys Ala Pro Tyr Ala
1                   5


<210>   67
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        Tyr at position 8
<400>   67

His Ser Leu Pro Lys Val Ser Tyr Ala
1                   5


<210>   68
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        Tyr at position 8
<400>   68

Thr Ala Ser Pro Lys Glu Phe Tyr Ala
1                   5


<210>   69
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         Tyr at position 8
<400>    69

Ala Ser Val Pro Lys Glu Leu Tyr Leu
1                  5


<210>    70
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         Tyr at position 8
<400>    70

Ser Pro Asp Pro Lys Ile Cys Tyr Val
1                  5


<210>    71
<211>    9
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         Tyr at position 8
<400>    71

Val Ala Glu Pro Lys Glu Ser Tyr Val
1                  5


<210>    72
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         Tyr at position 8
<400>    72

Ile Ser Ala Pro Lys Ile Phe Arg Val
1                  5


<210>    73
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criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8
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Ala Val Tyr Pro Lys Ile Phe Tyr Val
1   5

<210>   74
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        Tyr at position 8
<400>   74

Lys Ala Ser Glu Lys Ile Ile Tyr Val
1   5

<210>   75
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        Tyr at position 8
<400>   75

Val Gln Asp Pro Lys Val Thr Tyr Leu
1   5

<210>   76
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        Tyr at position 8
<400>   76

Cys Pro Val Pro Lys Ile Phe Tyr Val
1   5

<210>   77
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        Tyr at position 8
<400>   77

Phe Ala Lys Pro Lys Ile Thr Tyr Val

1   5

<210> 78
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       Tyr at position 8
<400> 78

Gln Thr Pro Pro Lys Ile Asp Tyr Leu
1   5

<210> 79
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       Tyr at position 8
<400> 79

Leu Arg Ser Pro Lys Leu Phe Tyr Ala
1   5

<210> 80
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       Tyr at position 8
<400> 80

Lys Tyr Ser Glu Lys Ile Ser Tyr Val
1   5

<210> 81
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<400> 81

Glu Gln Lys Pro Lys Asp Phe Tyr Ala
1   5

<210> 82
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       Tyr at position 8
<400>  82

Arg Thr Thr Pro Lys Asp Phe Tyr Val
1               5


<210>  83
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       Tyr at position 8
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Arg Ala Asp Pro Lys His Lys Tyr Leu
1               5


<210>  84
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       Tyr at position 8
<400>  84

Lys Arg Gly Trp Lys Thr Phe Tyr Ala
1               5


<210>  85
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       Tyr at position 8
<400>  85

Thr Ser Ser Trp Lys Lys Phe Tyr Leu
1               5


<210>  86
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<223>  Peptides with nine amino acids wherein two of the following
       criteria in is satisfied: Lys at position 5; Phe at position 7; or
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Tyr at position 8
<400> 86

Leu Ser Arg Pro Lys Arg Phe Tyr Leu
1   5

<210> 87
<211> 9
<212> PRT
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<223> Peptides with nine amino acids wherein two of the following
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      Tyr at position 8
<400> 87

Asn Thr Tyr Pro Lys Gly Phe Tyr Cys
1   5

<210> 88
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<212> PRT
<213> Artificial
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      Tyr at position 8
<400> 88

Ser Lys Leu Pro Lys Asp Phe Tyr Asp
1   5

<210> 89
<211> 9
<212> PRT
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      Tyr at position 8
<400> 89

Ala Leu Ser Pro Lys Glu Phe Tyr Glu
1   5

<210> 90
<211> 9
<212> PRT
<213> Artificial
<220>
<223> Peptides with nine amino acids wherein two of the following
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      Tyr at position 8
<400> 90

Lys Val Asp Pro Lys Pro Phe Tyr Glu
1   5

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<210>  91
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<212>  PRT
<213>  Artificial.
<220>
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       Tyr at position 8
<400>  91

Val Gly Ser Glu Lys Leu Phe Tyr Glu
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<210>  92
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       Tyr at position 8
<400>  92

Leu Met Thr Pro Lys Gln Met Tyr Glu
1               5


<210>  93
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<223>  Peptides with nine amino acids wherein two of the following
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       Tyr at position 8
<400>  93

Lys Asn Lys Pro Lys Met Asn Tyr Glu
1               5


<210>  94
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       Tyr at position 8
<400>  94

Val Arg Gly Pro Lys Tyr Phe Tyr Gly
1               5


<210>  95
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<213> Artificial
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      Tyr at position 8
<400> 95

Ala Ala Thr Pro Lys Ile Phe Asn Gly
1   5

<210> 96
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      Tyr at position 8
<400> 96

Trp Gly Glu Pro Lys Thr Trp Tyr Gly
1   5

<210> 97
<211> 9
<212> PRT
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      Tyr at position 8
<400> 97

Val Gly Leu Lys Lys Ser Phe Tyr Gly
1   5

<210> 98
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<212> PRT
<213> Artificial
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<223> Peptides with nine amino acids wherein two of the following
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      Tyr at position 8
<400> 98

Leu Ala Asn Pro Lys Glu Phe Tyr His
1   5

<210> 99
<211> 9
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      Tyr at position 8

<400> 99

Ala Ser Ser Pro Lys Val Ala Tyr His
1   5

<210> 100
<211> 9
<212> PRT
<213> Artificial
<220>
<223> Peptides with nine amino acids wherein two of the following
      criteria in is satisfied: Lys at position 5; Phe at position 7; or
      Tyr at position 8
<400> 100

Gln Tyr Thr Pro Lys Ala Lys Tyr His
1   5

<210> 101
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<212> PRT
<213> Artificial
<220>
<223> Peptides with nine amino acids wherein two of the following
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      Tyr at position 8
<400> 101

Gln Thr Gly Pro Lys Ser Thr Tyr Ile
1   5

<210> 102
<211> 9
<212> PRT
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<220>
<223> Peptides with nine amino acids wherein two of the following
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      Tyr at position 8
<400> 102

Ser Met Asp Pro Lys Arg Phe Tyr Lys
1   5

<210> 103
<211> 9
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<223> Peptides with nine amino acids wherein two of the following
      criteria in is satisfied: Lys at position 5; Phe at position 7; or
      Tyr at position 8
<400> 103

Gly Ile Thr Pro Lys Gly Phe Tyr Lys
1   5

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<210>  104
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<223>  Peptides with nine amino acids wherein two of the following
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       Tyr at position 8
<400>  104

Arg Leu Val Pro Lys Leu Phe Tyr Lys
1               5


<210>  105
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       Tyr at position 8
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Pro Ser Ser Pro Lys Val Thr Tyr Lys
1               5


<210>  106
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<223>  Peptides with nine amino acids wherein two of the following
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       Tyr at position 8
<400>  106

Glu Asp Glu Tyr Lys Ala Phe Tyr Lys
1               5


<210>  107
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       Tyr at position 8
<400>  107

Thr Leu Gly Pro Lys Ile Thr Tyr Gln
1               5


<210>  108
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<220>
<223>  Peptides with nine amino acids wherein two of the following
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       Tyr at position 8
<400>  108

Glu Lys Glu Gly Lys Pro Phe Tyr Gln
1               5


<210>  109
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<223>  Peptides with nine amino acids wherein two of the following
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       Tyr at position 8
<400>  109

Val Ala Gln Pro Lys Glu Val Tyr Arg
1               5


<210>  110
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       Tyr at position 8
<400>  110

Glu Ala Gly Pro Pro Ala Phe Tyr Arg
1               5


<210>  111
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       Tyr at position 8
<400>  111


Gln Ile Asn Pro Lys Cys Phe Tyr Thr
1               5


<210>  112
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       Tyr at position 8
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<400> 112

Asp Ile Pro Pro Lys Phe Phe Tyr Thr
1   5

<210> 113
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<212> PRT
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Asp Asp Asn Pro Lys Thr Phe Tyr Trp
1   5

<210> 114
<211> 9
<212> PRT
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      Tyr at position 8
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Asp Ala Val Pro Lys Ile Glu Tyr Tyr
1   5

<210> 115
<211> 9
<212> PRT
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      Tyr at position 8
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Val Ile His Glu Lys Gly Phe Tyr Tyr
1   5

<210> 116
<211> 9
<212> PRT
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      Tyr at position 8
<400> 116

Gly Ile Leu Gly Phe Val Phe Thr Leu
1   5